

ABSTRACT OF THE DISCLOSURE

Medical devices, and in particular implantable medical devices, may be
5 coated to minimize or substantially eliminate a biological organism's reaction to
the introduction of the medical device to the organism. The medical devices
may be coated with any number of biocompatible materials. Therapeutic
drugs, agents or compounds may be mixed with the biocompatible materials
and affixed to at least a portion of the medical device. These therapeutic
10 drugs, agents or compounds may also further reduce a biological organism's
reaction to the introduction of the medical device to the organism. In addition,
these therapeutic drugs, agents and/or compounds may be utilized to promote
healing, including the formation of blood clots. Also, the devices may be
modified to promote endothelialization. Various materials and coating
15 methodologies may be utilized to maintain the drugs, agents or compounds on
the medical device until delivered and positioned. In addition, the devices
utilized to deliver the implantable medical devices may be modified to reduce
the potential for damaging the implantable medical device during deployment.
Medical devices include stents, grafts, anastomotic devices, perivascular
20 wraps, sutures and staples. In addition, various polymer combinations may be
utilized to control the elution rates of the therapeutic drugs, agents and/or
compounds from the implantable medical devices.